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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,662	07/27/2004	Jui-Tsen Huang	12336-US-PA	4661
31561	7590	03/19/2008		
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAIPEI, 100 TAIWAN			EXAMINER	
			HARRISON, MONICA D	
			ART UNIT	PAPER NUMBER
			2813	
			NOTIFICATION DATE	DELIVERY MODE
			03/19/2008	ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USA@JCIPGROUP.COM.TW

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/710,662	HUANG, JUI-TSEN
<b>Examiner</b>	<b>Art Unit</b>	
Monica D. Harrison	2813	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 06 November 2007.
- 2a) This action is **FINAL**.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-8, 10, 15-18 and 20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-8, 10, 15-18 and 20 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) All    b) Some \* c) None of:  
1. Certified copies of the priority documents have been received.  
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                  | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                         | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ . | 5) <input type="checkbox"/> Notice of Informal Patent Application |
|  | 6) <input type="checkbox"/> Other: _____ .                        |

## DETAILED ACTION

1. Applicant's arguments filed 11/6/07 have been entered.

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chakravorty (6,181,569 B1) in view of Chao et al (5,622,899).

2. Regarding claim 1, Chakravorty discloses a stress relieving method for a wafer, comprising the steps of: providing a wafer (Figure 4, reference 301) with a dielectric layer thereon (Figure 4, reference 305), wherein the wafer is divided into a first area (Figure 5, reference 304) and a second area (Figure 5, reference 305); forming a plurality of first openings in the dielectric layer within the first area (Figure 5, above reference 304); and forming a first material layer over the wafer, wherein the upper surface of the first material layer has pits at locations over the first openings and the first material layer is a high stress dielectric layer (Figure 5, reference 308).

However, Chakravorty does not disclose no circuits are formed on the dielectric within the first area.

Chao et al discloses disclose no circuits are formed on the dielectric within the first area (Figure 2A, reference 8a).

It would have been obvious, at the time the invention was made, for one having ordinary skill in the art, to modify Chakravorty with the teachings of Chao et al, for the purpose of fabricating a semiconductor chip that is separated by scribe lines used for endpoint detection.

3. Regarding claim 2, Chakravorty discloses wherein the first area comprises a scribe line (Figure 6, reference 303).

4. Regarding claim 3, Chakravorty discloses wherein the second area comprises a region for forming a die (Figure 5a, reference 302).

5. Regarding claim 4, Chakravorty discloses wherein the first area comprises a scribe line (Figure 6, reference 303).

6. Regarding claim 5, Chakravorty discloses wherein the first area and the second area are both regions for forming a die (Figure 5a).

7. Regarding claim 6, Chakravorty discloses wherein the step of forming first openings in the dielectric layer within the first area further comprises forming a plurality of second openings in the first dielectric layer within the second area at the same time and then depositing material into the second openings to form a plurality of second material layers (Figure 5a).

8. Regarding claim 7, Chakravorty discloses wherein the first opening is not deep enough to expose film layer underneath the dielectric layer (Figure 5a, above reference 304)

9. Regarding claim 8, Chakravorty discloses wherein the first opening exposes a film layer underneath the dielectric layer (Figure 5a).

Claims 10, 15-18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chakravorty (6,181,569 B1) in view of Chao et al (5,622,899).

10. Regarding claim 10, Chakravorty discloses a stress relieving method for a wafer, comprising the steps of: providing a wafer (Figure 1, reference 301) with a dielectric layer thereon (Figure 4, reference 305), wherein the wafer is divided into a first area and a second area such that no circuits are formed within the first area (Figure 4, underneath reference 305), and forming a first material layer over the wafer to cover the dielectric layer (Figure 5, reference 308).

However, Chakravorty does not disclose the first area comprising a scribe line, the second area comprising a region for forming a die wherein there is no opening formed in the dielectric layer within the first area; and forming a plurality of first openings in the first material layer within the first area.

Chao et al discloses the first area comprising a scribe line (Figure 2A, reference 21), the second area comprising a region for forming a die (Figure 2B, reference 22) wherein there is no opening formed in the dielectric layer within the first area (Figure 2A, reference 8A); and forming a plurality of first openings in the first material layer within the first area (Figure 2B).

It would have been obvious, at the time the invention was made, for one having ordinary skill in the art, to modify Chakravorty with the teachings of Chao et al, for the purpose of fabricating a semiconductor chip that is separated by scribe lines used for endpoint detection

11. Regarding claim 15, Chakravorty discloses wherein the first opening is not deep enough to expose the dielectric layer (Figure 4, above reference 304). 1

12. Regarding claim 16, Chakravorty discloses wherein the first opening exposes the dielectric layer (Figure 4, reference 305).

13. Regarding claim 17, Chao et al discloses wherein before forming the second dielectric layer over the wafer, further comprises: forming a plurality of second openings in the dielectric layer within the second area; and depositing material into the second openings to form a plurality of second material layers (Figure 2B).

14. Regarding claim 18, Chakravorty discloses wherein the first material layer is fabricated from a dielectric material or a metal material (Figure 5, reference 308).

15. Regarding claim 20, Chakravorty discloses wherein the first material layer is a high stress dielectric layer (Figure 5, reference 308).

***Response to Arguments***

16. Applicant's arguments with respect to claims 1-8, 10, 15-18 and 20 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica D. Harrison whose telephone number is (571)272-1959. The examiner can normally be reached on M-F 7:00am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr. can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2813

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Monica D. Harrison/  
Examiner, Art Unit 2813

/Carl Whitehead Jr./  
Supervisory Patent Examiner, Art Unit  
2813

mdh  
March 3, 2008